

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
4 January 2001 (04.01.2001)

PCT

(10) International Publication Number
WO 01/01129 A3

- (51) International Patent Classification⁷: C12Q 1/68
- (21) International Application Number: PCT/EP00/05563
- (22) International Filing Date: 16 June 2000 (16.06.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
9902410-1 24 June 1999 (24.06.1999) SE
- (71) Applicant (for all designated States except US): **CAVIDI TECH AB** [SE/SE]; Uppsala Science Park, S-751 83 Uppsala (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **KÄLLANDER, Clas** [SE/SE]; Husbygård, Husbyborg, S-755 92 Uppsala (SE). **GRONOWITZ, Simon** [SE/SE]; Norbyvägen 51, S-752 39 Uppsala (SE). **PETTERSSON, Ingvar** [SE/SE]; Stagneliusgatan 2, S-754 22 Uppsala (SE).
- (74) Agent: **NILSSON, Brita**; Stockholms Patentbyrå Zacco AB, P.O. Box 23101, S-104 35 Stockholm (SE).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- (88) Date of publication of the international search report:
26 July 2001
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: REVERSE TRANSCRIPTASE ASSAY KIT, USE THEREOF AND METHOD FOR ANALYSIS OF RT ACTIVITY IN BIOLOGICAL SAMPLES

(57) Abstract: A reverse transcriptase (RT) assay kit for analysis of RT activity in biological samples is described. The kit comprises solid phase bound prA and/or pdA template(s) obtainable by contacting a polystyrene-based solid phase with a 1-methylimidazole-containing coupling solution, and RT-type adapted assay components selected from a buffer, divalent metal ion, chelator, polyamine, RNase inhibitor, reducing agent, salt, stabilizing agent, and detergent, and deoxynucleotide triphosphate, primer, protective agent and concentrated washing buffer, and optionally lyophilized reference enzyme(s), and further optionally lyophilized alkaline phosphatase conjugated anti-BrdU monoclonal antibody, alkaline phosphatase substrate buffer and alkaline phosphatase substrate, and written instructions for use of the assay kit. Further, a method and a use of the assay kit for the qualitative and quantitative analysis of RT activity in a biological sample, optionally followed by evaluation of the status of a RT activity related disorder or disease based on the result of the analysis of the RT activity, are disclosed.

WO 01/01129 A3

